



Mobilgear™ EP Series

Mobil Industrial, Sweden

Extreme Pressure Gear Oil

Product Description

Mobilgear EP lubricants are a family of industrial extreme pressure gear lubricants formulated with high quality mineral oils, which help reduce sludge formation and increase oil service life.

Mobilgear EP oils contain an additive system that gives high load carrying ability, protection against wear and corrosion whilst ensuring good water handling properties.

Mobilgear EP oils are suitable for use wherever industrial gear oils are specified, in either splash or circulating systems, providing protection in applications with constant or shock loading.

Features and Benefits

| Features | Advantages and Potential Benefits |
|--|--|
| Extreme pressure wear protection of gears and bearings | Less gear and bearing wear resulting in unexpected downtime |
| Good resistance to oxidation and thermal degradation | Contributes to extended lubricant life and lower lubrication costs |
| Resistance to sludge and deposit formation | Helps keep the system clean and reduce maintenance |
| Good demulsibility and corrosion protection | Protection in presence of humidity and ease water separation |
| Applicable for use in splash or circulation systems | Wide range of applications helps simplify the inventory |

Applications

Mobilgear EP gear oils are suitable for a wide range of industrial spur, helical, bevel and steel-on-steel worm gearing, including drives for conveyers, agitators, dryers, fans, mixers, presses, pulpers, pumps, screens, extruders, and oil well pumps.

Specifications and Approvals

| This product meets or exceeds the requirements of: | MOBILGEAR EP 150 | MOBILGEAR EP 220 | MOBILGEAR EP 320 | MOBILGEAR EP 460 |
|--|------------------|------------------|------------------|------------------|
| DIN 51517-3:2018-09 | X | X | X | X |
| ISO L-CKC (ISO 12925-1:2018) | X | X | X | X |

Properties and Specifications

| Property | MOBILGEAR EP 150 | MOBILGEAR EP 220 | MOBILGEAR EP 320 | MOBILGEAR EP 460 |
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| Property | MOBILGEAR EP 150 | MOBILGEAR EP 220 | MOBILGEAR EP 320 | MOBILGEAR EP 460 |
|--|------------------|------------------|------------------|------------------|
| Grade | ISO VG 150 | ISO VG 220 | ISO VG 320 | ISO VG 460 |
| Copper Strip Corrosion, 3 h, 100 C, Rating, ASTM D130 | 1B | 1B | 1B | 1B |
| Density @ 15 C, g/ml, ASTM D4052 | 0.88 | 0.88 | 0.89 | 0.89 |
| Emulsion, Time to 37 mL Water, 82 C, min, ASTM D1401 | 10 | 10 | 15 | 15 |
| Flash Point, Cleveland Open Cup, °C, ASTM D92 | 250 | 242 | 262 | 258 |
| Foam, Sequence I, Stability, no Option A, ml, ASTM D892 | 0 | 0 | 0 | 0 |
| Foam, Sequence I, Tendency, no Option A, ml, ASTM D892 | 40 | 20 | 0 | 0 |
| Foam, Sequence II, Stability, no Option A, ml, ASTM D892 | 0 | 0 | 0 | 0 |
| Foam, Sequence II, Tendency, no Option A, ml, ASTM D892 | 0 | 0 | 10 | 20 |
| Foam, Sequence III, Stability, no Option A, ml, ASTM D892 | 0 | 0 | 0 | 0 |
| Foam, Sequence III, Tendency, no Option A, ml, ASTM D892 | 0 | 0 | 0 | 0 |
| Kinematic Viscosity @ 100 C, mm ² /s, ASTM D445 | 15.2 | 19.4 | 24.9 | 30.8 |
| Kinematic Viscosity @ 40 C, mm ² /s, ASTM D445 | 150 | 220 | 320 | 460 |
| Pour Point, °C, ASTM D97 | -18 | -15 | -12 | -9 |
| Viscosity Index, ASTM D2270 | 95 | 95 | 95 | 95 |

Health and Safety

Health and Safety recommendations for this product can be found on the Material Safety Data Sheet (MSDS) @ <http://www.msds.exxonmobil.com/psims/psims.aspx>

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Typical Properties are typical of those obtained with normal production tolerance and do not constitute a specification. Variations that do not affect product performance are to be expected during normal manufacture and at different blending locations. The information contained herein is subject to change without notice. All products may not be available locally. For more information, contact your local ExxonMobil contact or visit www.exxonmobil.com

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